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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,443	09/16/2003	Tomohiro Yamaguchi	. 018656-678	9825
21839 BUCHANAN.	7590 05/02/2007 , INGERSOLL & ROONEY P	C	EXAMINER	
POST OFFICE BOX 1404			VO, QUANG N	
ALEXANDRI	A, VA 22313-1404		ART UNIT	PAPER NUMBER
			2625	
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			05/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
,	10/662,443	YAMAGUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Quang N. Vo	2625				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI (36(a). In no event, however, may a will apply and will expire SIX (6) MON e, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status	4					
1) Responsive to communication(s) filed on 16 S	September 2003.					
	_					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under the	Ex parte Quayle, 1935 C.E	D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application) .					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.						
7) Claim(s) is/are objected to						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.	•				
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to	by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	· · · · · · · · · · · · · · · · · · ·					
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Burea						
* See the attached detailed Office action for a list	of the certified copies not	received.				
·.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/16/2003. 	_	Informal Patent Application				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Suzuki et al. (Suzuki) (US Patent 6,707,951).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

With regard to claim 1, Suzuki discloses an image processing apparatus that handles image data (column 1, lines 13-15), comprising: a dividing unit which divides image data into large blocks of a prescribed size and further subdivides these large blocks into multiple smaller blocks (column 7, lines 28-47); a large block isolated point calculation unit which calculates the number of isolated points contained in each large block established by the dividing unit (column 7, lines 40-41); a small block isolated

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point calculation unit which calculate the number of isolated points contained in each small block established by the dividing unit (column 7, 41-47 and column 10, lines 19-26); and a halftone-dot region determination unit which determines whether or not a large block is a halftone-dot region based on the number of isolated points calculated by the large block isolated point calculation unit and the number of the isolated points calculated by the small block isolated point calculation unit (column 8, lines 29-43).

With regard to claim 2, Suzuki discloses wherein said halftone-dot region determination unit determine that a large block is a halftone-dot region if the number of isolated points in the large block equals or exceeds a first prescribed value and the number of isolated points in each small block contained in the large block equals or exceeds a second prescribed value (column 8, lines 38-43 and column 10, lines 19-37).

With regard to claim 3, Suzuki discloses wherein said second prescribed value is smaller than said first prescribed value (column 10, lines 31-42). Here, threshold value is based on resolutions of image. The isolated points are reduced respecting to resolution.

With regard to claim 4, Suzuki discloses further comprising: an image processing unit which corrects the image data based on the results of determination by said halftone-dot region determination unit (column 7, lines 58-67).

With regard to claim 5, Suzuki discloses further comprising: an image forming unit which performs image formation based on the image data corrected by said image processing unit (column 8, lines 3-8).

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With regard to claim 6, Suzuki discloses an image processing apparatus that handles image data (column 1, lines 13-15), comprising: a dividing unit which divides image data into multiple small blocks (column 9, lines 6-16); a small block isolated point calculation unit which calculate the number of isolated points contained in each small block established by the dividing unit (column 7, 41-47); a large block isolated point calculation unit which calculates the number of isolated points contained in the large block composed of multiple smaller blocks based on the small block isolated point totals calculated by the small block isolated point calculation units (column 7, lines 40-41); and a halftone-dot region determination unit which determines whether or not a large block is a halftone-dot region based on the number of isolated points calculated by the large block isolated point calculation unit and the number of isolated points calculated by the small block isolated point calculation unit (column 8, lines 29-43).

With regard to claim 7, Suzuki discloses wherein said halftone-dot region determination unit determine that a large block is a halftone-dot region if the number of isolated points in the large block equals or exceeds a first prescribed value and the number of isolated points in each small block contained in the large block equals or exceeds a second prescribed value (column 8, lines 38-43 and column 10, lines 19-37).

With regard to claim 8, Suzuki discloses wherein said second prescribed value is smaller than said first prescribed value (column 10, lines 31-42). Here, threshold value is based on resolutions of image. The isolated points are reduced respecting to resolution.

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With regard to claim 9, Suzuki discloses further comprising: an image processing unit which corrects the image data based on the results of determination by said

With regard to claim 10, Suzuki discloses further comprising: an image forming unit which performs image formation based on the image data corrected by said image processing unit (column 8, lines 3-8).

halftone-dot region determination unit (column 7, lines 58-67).

With regard to claim 11, Suzuki discloses an image processing method that handles image data (column 1, lines 13-15) comprising the steps of: dividing image data into large blocks of a prescribed size and further subdividing these large blocks into multiple smaller blocks (column 7, lines 28-47); calculating the number of isolated points contained in the large block established via division (column 7, lines 40-41) and the number of isolated points contained in the small block established via division (column 7, 41-47 and column 10, lines 19-26); and determining whether or not the large block is a halftone-dot region based on the calculated number of large block isolated points and the calculated number of small block isolated points (column 8, lines 29-43).

With regard to claim 12, Suzuki discloses wherein said determining step determine that a large block is a halftone-dot region if the number of isolated points in the large block equals or exceeds a first prescribed value and the number of isolated points in each small block contained in the large block equals or exceeds a second prescribed value (column 8, lines 38-43 and column 10, lines 19-37).

With regard to claim 13, Suzuki discloses wherein said second prescribed value is smaller than said first prescribed value (column 10, lines 31-42). Here, threshold

value is based on resolutions of image. The isolated points are reduced respecting to resolution.

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With regard to claim 14, Suzuki discloses an image processing method that handles image data (column 1, lines 13-15) comprising the steps of: dividing image data into multiple small blocks (column 9, lines 6-16); calculating the number of isolated points contained in each small block established via division (column 7, 41-47); calculating the number of isolated points contained in the large block composed of multiple smaller blocks based on the calculated number of small block isolated points (column 7, lines 40-41); and determining whether or not the large block is a halftone-dot region based on the calculated number of large block isolated points and the calculated number of small block isolated points (column 8, lines 29-43).

With regard to claim 15, Suzuki discloses wherein said determining step determine that a large block is a halftone-dot region if the number of isolated points in the large block equals or exceeds a first prescribed value and the number of isolated points in each small block contained in the large block equals or exceeds a second prescribed value (column 8, lines 38-43 and column 10, lines 19-37).

With regard to claim 16, Suzuki discloses wherein said second prescribed value is smaller than said first prescribed value (column 10, lines 31-42). Here, threshold value is based on resolutions of image. The isolated points are reduced respecting to resolution.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Quang N. Vo whose telephone number is 5712701121.

The examiner can normally be reached on 7:30AM-5:00PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Twyler M. Lamb can be reached on 5712727406. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Quang Vo

Quang N. Vo 4/27/07

Patent Examiner

TWYLER LAMB SUPERVISORY PATENT EXAMINER

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